

SEQUENCE LISTING

<110> Donovan, Stephen

<120> Composotions and Methods for Treating Gonadotrophin
Related Illnesses

<130> 2947

<140> unknown

<141> 2001-03-15

<160> 44

<170> PatentIn Ver. 2.1

<210> 1

<211> 10

<212> PRT

<213> human

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<400> 1

Xaa His Trp Ser Tyr Gly Leu Arg Pro Gly
1 5 10

<210> 2

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu;; PYRROLIDONE
CARBOXYLIC ACID

<220>

<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Gly-NH2; AMIDATION;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 2
Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa
1 5 10

<210> 3
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is ethylamide;;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 3

Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa

1

5

10

<210> 4

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Aza-Gly-NH₂;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 4

Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa

1

5

10

<210> 5

<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Gly-NH2; AMIDATION;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 5
Xaa His Trp Ser Tyr Lys Leu Arg Pro Xaa
1 5 10

<210> 6
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is ethylamide;;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 6

Xaa His Trp Ser Tyr Lys Leu Arg Pro Xaa

1

5

10

<210> 7

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Aza-Gly-NH2;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 7

Xaa His Trp Ser Tyr Lys Leu Arg Pro Xaa

1

5

10

<210> 8

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>

<221> MOD_RES

<222> (6)

<223> Xaa at position 6 is D-Lys

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Gly-NH2; AMIDATION

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 8

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 9

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (6)

<223> Xaa at position 6 is D-Lys

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is ethylamide

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 9

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 10
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGLu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is D-Lys;;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Aza-Gly-NH2

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 10
Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 11
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is Ornithine;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Gly-NH2; AMIDATION

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 11
Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 12
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is Ornithine

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is ethylamide

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 12
Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 13
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>

<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is Ornithine

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Aza-Gly-NH2

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 13
Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 14
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGLu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is D-Ornithine

<220>
<221> MOD_RES

<222> (10)
<223> Xaa at position 10 is Gly-NH2; AMIDATION

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 14
Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 15
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is D-Ornithine

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is ethylamide;;

<300>
<310> 5631226
<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 15

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa

1

5

10

<210> 16

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>

<221> MOD_RES

<222> (6)

<223> Xaa at position 6 is D-Ornithine;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Aza-Gly-NH2;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 16

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 17

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Gly-NH2; AMIDATION;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 17

Xaa His Trp Ser Tyr Glu Leu Arg Pro Xaa
1 5 10

<210> 18

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is ethylamide;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 18

Xaa His Trp Ser Tyr Glu Leu Arg Pro Xaa
1 5 10

<210> 19

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Aza-Gly-NH2;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 19
Xaa His Trp Ser Tyr Glu Leu Arg Pro Xaa
1 5 10

<210> 20
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is D-Glu;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Gly-NH2; AMIDATION;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 20
Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 21
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is D-Glu;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is ethylamide;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 21

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa

1

5

10

<210> 22

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (6)

<223> Xaa at position 6 is D-Glu;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Aza-Gly-NH₂;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 22

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 23

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Gly-NH2; AMIDATION;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 23

Xaa His Trp Ser Tyr Asp Leu Arg Pro Xaa
1 5 10

<210> 24

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is ethylamide;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 24

Xaa His Trp Ser Tyr Asp Leu Arg Pro Xaa
1 5 10

<210> 25

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (10)
<223> Xaa at position 10 is 'Aza-Gly-NH2;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 25
Xaa His Trp Ser Tyr Asp Leu Arg Pro Xaa
1 5 10

<210> 26
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is D-Asp;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Gly-NH2; AMIDATION

<300>
<310> 5631226
<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 26

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 27

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (6)

<223> Xaa at position 6 is D-Asp;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is ethylamide;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 27

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 28

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (6)

<223> Xaa at position 6 is D-Asp;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Aza-Gly-NH2;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 28

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 29
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGLu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Gly-NH2; AMIDATION;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 29
Xaa His Trp Ser Tyr Cys Leu Arg Pro Xaa
1 5 10

<210> 30
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> METAL
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is ethylamide;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 30
Xaa His Trp Ser Tyr Cys Leu Arg Pro Xaa
1 5 10

<210> 31
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Aza-Gly-NH2;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 31
Xaa His Trp Ser Tyr Cys Leu Arg Pro Xaa
1 5 10

<210> 32
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is D-Cys

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Gly-NH2; AMIDATION;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>

<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 32
Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 33
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is D-Cys;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is ethylamide

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 33

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa

1

5

10

<210> 34

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGLu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (6)

<223> Xaa at position 6 is D-Cys

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Aza-Gly-NH2

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 34

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa

1

5

10

<210> 35

<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Gly-NH2; AMIDATION

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 35
Xaa His Trp Ser Tyr Tyr Leu Arg Pro Xaa
1 5 10

<210> 36
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)

<223> Xaa at position 1 is PyroGLu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is ethylamide

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 36

Xaa His Trp Ser Tyr Tyr Leu Arg Pro Xaa
1 5 10

<210> 37

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Aza-Gly-NH2

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 37

Xaa His Trp Ser Tyr Tyr Leu Arg Pro Xaa

1

5

10

<210> 38

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (6)

<223> Xaa at position 6 is D-Tyr

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is Gly-NH2; AMIDATION;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 38

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 39

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>

<221> MOD_RES

<222> (6)

<223> Xaa at positon 6 is D-Tyr;

<220>

<221> MOD_RES

<222> (10)

<223> Xaa at position 10 is ethylamide;

<300>

<310> 5631226

<311> 1993-07-07

<312> 1997-05-20

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 39

Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 40
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Gonadotrophin
Release Hormone Analogue

<220>
<221> MOD_RES
<222> (1)
<223> Xaa at position 1 is PyroGlu; PYRROLIDONE
CARBOXYLIC ACID;

<220>
<221> MOD_RES
<222> (6)
<223> Xaa at position 6 is D-Tyr;

<220>
<221> MOD_RES
<222> (10)
<223> Xaa at position 10 is Aza-Gly-NH2;

<300>
<310> 5631226
<311> 1993-07-07
<312> 1997-05-20

<300>
<301> Rousselle, Christophe
<303> Mol. Pharmacol.
<304> 57
<306> 679-686
<307> 2000

<400> 40
Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
1 5 10

<210> 41
<211> 15
<212> PRT
<213> human

<400> 41

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10 15

<210> 42

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Membrane
Translocation Peptide

<300>

<301> Rousselle, Christophe

<303> Mol. Pharmacol.

<304> 57

<306> 679-686

<307> 2000

<400> 42

Arg Gly Gly Arg Lys Ser Trp Ser Arg Arg Arg Phe Ser Thr Ser Thr
1 5 10 15

Gly Arg

<210> 43

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR DNA Primer

<400> 43

aaaggccttt tgtaataaaa caa

23

<210> 44

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR DNA Primer

<400> 44

ggaattctta cttattgtat ccttta

26

ggaattctta cttattgtat ccttta